**RC1 ELEVATION - B&D WINDSPAN**

**TRACKLOCK DOOR UP TO 3.1m DOOR WIDTH**

1:50

**RC2 ELEVATION - B&D WINDSPAN™ DOOR**

3.105m TO 3.7m DOOR WIDTH (ONE BRACE)

1:50

**RC3 ELEVATION - B&D WINDSPAN™ DOOR**

3.705m TO 6.15m DOOR WIDTH (TWO BRACES)

1:50

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**SECTIONAL DOOR ELEVATIONS FOR USE IN WIND REGIONS (C) 2**

James Ellis & Associates

Consulting Structural Engineers

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**DESIGN CRITERIA:**

- Refer also to notes covering basis of drawings and limitations.

**DOOR HEIGHT**

- RC1: 3.1m max.
- RC2: 3.7m max.
- RC3: 6.0m max.

**WIND RATING**

- For RC1 & RC2: As given in Table 5.2 of AS/NZS 4250:2012 or approximately equal to the following wind rating when in accordance with AS/NZS 1177:2001.

**FOR RC1 CONFIGURATIONS**

- Region C
- Terrain Category 2
- External pressure coefficients CEF = (-0.3, -0.4)
- Regional wind speed Ve = 100.3 m/s

**FOR RC2 CONFIGURATIONS**

- Region D
- Terrain Category 1
- External pressure coefficients CEF = (-0.3, -0.4)
- Regional wind speed Ve = 123.8 m/s

**LIMITATIONS:**

- Concrete strength of slab for base floor framing (fc) = 20 N/mm²
- All components shall be in accordance with standard B&D windspan™ manufacturing.
- Door installation to be in accordance with standard B&D windspan™ installation guidelines.
- Braces to be fabricated, installed and maintained in accordance with manufacturers installation guidelines and handling procedures.
- The structure to which the door is attached, including lintels, ceiling wind bracing and supports, shall be assessed and certificated independently as required by a suitably qualified engineer.
- Alternative design parameters to what are specified in the drawings along with alternative site specific wind pressure factors may be adopted provided the calculated site specific ultimate design wind pressure does not exceed the ultimate design wind pressure ratings specified in the design criteria.
- Braces are to be installed when cyclone warning is issued.
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**NOTES:**

- Covers basis of drawings (relevant test reports etc).
- Reports 961887 & 116819: A (cyclone testing station, school of engineering and physical sciences, James Cook University).
- Principles of mechanics.
- AS 1170.1-2002-Structural design actions, part 1: permanent, imposed, snow and ice actions.
- AS 1170.2:2002-Structural design actions, part 1: permanent, imposed, snow and ice actions.
- AS 1170.1-2002-Structural design actions, part 1: permanent, imposed, snow and ice actions.